



CSLA2GD



Actual product appearance may vary.

CSLA Series linear current sensor, 72 A sensed current, sink or source output, through-hole, operates on AC or DC current, side mount

Features

- Linear output
- AC or DC current sensing
- Through-hole design
- Fast response time
- Output voltage isolation from input
- Minimum energy dissipation
- Maximum current limited only by conductor size
- Adjustable performance and built-in temperature compensation assures reliable operation
- Accurate, low cost sensing
- Operating temperature range -25 °C to 85 °C
- Housing: PBT polyester

Potential Applications

- Variable speed drives
- Overcurrent protection
- Ground fault detectors
- Current feedback control systems
- Robotics
- UPS and telecommunication power supplies
- Welding power supplies
- Automotive - Battery management systems
- Wattmeters

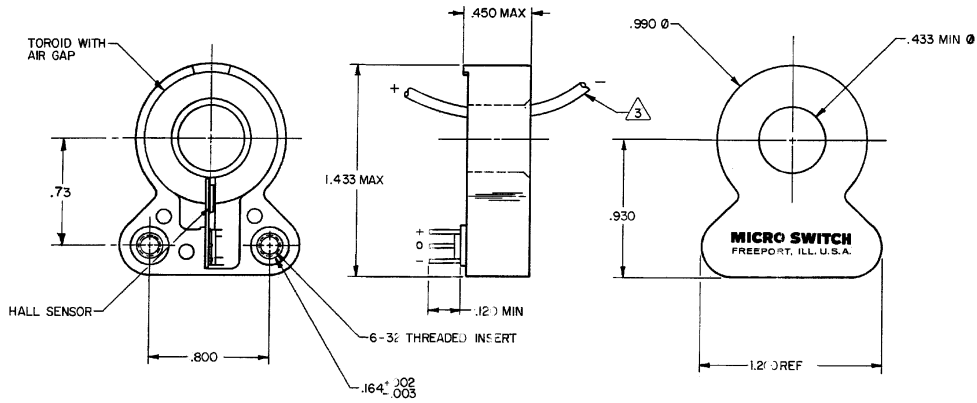
Description

Honeywell CSLA series linear current sensors incorporate our 91SS12-2 and SS94A1 linear output Hall effect transducer (LOHET™). The sensing element is assembled in a printed circuit board mountable housing. This housing is available in four configurations. Normal mounting is with 0.375 inch long 4-40 screw and square nut (not provided) inserted in the housing or a 6-20 self-tapping screw. The combination of the sensor, flux collector, and housing comprises the holder assembly. These sensors are ratiometric.

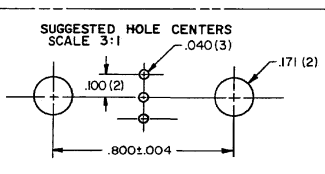
Product Specifications	
Product Type	Inductive Analog Current Sensor
Sensed Current Type	ac or dc
Sensed Current Range	± 72 A
Package Style	PCB right angle Mount
Output Type	Voltage
Sensitivity	32.7 mV N* ± 3.0 mV N* @ 8 Vdc
Supply Current	20 mA max.
Offset Voltage	Vcc/2 ± 2 %
Supply Voltage	6.0 Vdc to 12.0 Vdc
Offset Shift (%/ °C)	± 0.02

Response Time	8 μ s
Operating Temperature Range	-25 °C to 85 °C [-13 °F to 185 °F]
Storage Temperature Range	-40 °C to 100°C [-40 °F to 212 °F]
Housing Material	PBT Polyester
Mounting	PCB on 3 pins
Pinout Style	3 pin
Availability	Global
Comment	* N = Number of Turns
UNSPSC Code	411121
UNSPSC Commodity	411121 Transducers
Series Name	CSLA

PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS/REMARKS
SUPPLY VOLTAGE	5.4	8.0	13.2	VOLTS	-25°C TO 85°C
SUPPLY CURRENT		13	20	mA	MAX @ -25°C, TYP @ 25°C, V _s = 8.0V, EXCLUDES LOAD
OUTPUT CURRENT	1			mA	SINKING OR SOURCING
OUTPUT VOLTAGE SWING	(-V)+1.25		(+V)-1.25	VOLTS	MAX CLAMPED @ 9.0 VOLTS MIN
SENSITIVITY	29.7		35.7	mV/NI	@ V _s = 8.0 V & 25°C Δ
LINEARITY		.5	1.0	% OF SPAN	DEV FROM STR LINE FROM -1 MAX TO +1 MAX Δ
Vout @ 0 NI	.5(Vs)-2%		.5(Vs)+2%	VOLTS	25°C
TEMP ERROR - NULL	-.02		+.02	1/°C	-25°C TO 85°C
TEMP ERROR - GAIN	-.06		+.01	1/°C	-25°C TO 85°C



- NOTES
- 1 - SUGGESTED I MAX FOR LINEAR OPERATION IS 72 AMPS
 - 2 - RECOMMENDED MOUNTING IS .250 LONG 6-32 SCREW
 - 3 - CONVENTIONAL CURRENT FLOW IN DIRECTION INDICATED WILL CAUSE AN INCREASE IN OUTPUT VOLTAGE
 - 4 - THE DEVICE CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE
 - 5 - AT V_s OTHER THAN 8.0 VOLTS, SENSITIVITY = (NUMBER SHOWN) X V_s/8



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72 AMP CURRENT SENSOR

CATALOG LISTING
CSLA2GD

FED. REG. CODE 91920

THIRD ANGLE PROJECTION

SCALE FULL

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE	(.0)	±.030
TWO PLACES	(.00)	±.015
THREE PLACES	(.000)	±.005
ANGLES		±

WEIGHT

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 RELEASE NO.: PR-15278
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